Performance Data Sheet

AWA5528CXN

General Information

Model	AWA5528CXN	**Refrigerant**	R-407C
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5430	4860					
	Watts	1310	1240					
	Amps	7.30	7.03					
	Lb/h	87.9	77.5					
-10	Btu/h	7050	6320	5570				
	Watts	1400	1340	1290				
	Amps	7.57	7.37	7.17				
	Lb/h	104	93.5	82.4				
-5	Btu/h	8850	7950	7050	6150			
	Watts	1480	1450	1410	1380			
	Amps	7.83	7.71	7.58	7.44			
	Lb/h	123	112	101	89.0			
0	Btu/h	10800	9780	8710	7650	6570		
	Watts	1560	1540	1530	1510	1490		
	Amps	8.08	8.03	7.98	7.92	7.85		
	Lb/h	145	134	122	109	97.1		
5	Btu/h	13000	11800	10600	9330	8090		
	Watts	1630	1630	1640	1640	1640		
	Amps	8.33	8.35	8.37	8.38	8.39		
	Lb/h	170	158	145	133	120		
10	Btu/h	15500	14000	12600	11200	9800	8390	6980
	Watts	1690	1720	1740	1760	1780	1800	1810
	Amps	8.56	8.65	8.74	8.83	8.91	8.99	9.06
	Lb/h	197	185	172	159	145	132	118
15	Btu/h	18100	16500	14900	13300	11700	10100	8550
	Watts	1750	1790	1840	1880	1920	1950	1990
	Amps	8.77	8.94	9.11	9.27	9.43	9.58	9.72
	Lb/h	228	214	201	187	174	160	145
20	Btu/h	21000	19200	17400	15600	13800	12100	10300
	Watts	1800	1870	1930	1990	2040	2100	2150
	Amps	8.97	9.22	9.46	9.70	9.93	10.2	10.4
	Lb/h	261	247	233	219	205	190	175

25	Btu/h	24100	22100	20100	18200	16200	14200	12300
	Watts	1850	1930	2010	2090	2170	2240	2320
	Amps	9.15	9.48	9.79	10.1	10.4	10.7	11.0
	Lb/h	297	282	268	253	238	223	208
30	Btu/h	27500	25300	23100	20900	18800	16600	14500
	Watts	1890	1990	2090	2190	2280	2380	2470
	Amps	9.31	9.72	10.1	10.5	10.9	11.3	11.6
	Lb/h	335	320	305	290	275	259	244
35	Btu/h	31200	28800	26400	24000	21600	19300	16900
	Watts	1930	2050	2170	2280	2400	2510	2620
	Amps	9.46	9.94	10.4	10.9	11.3	11.8	12.2
	Lb/h	377	362	346	330	314	298	282
40	Btu/h	35100	32500	29900	27300	24700	22200	19600
	Watts	1960	2100	2230	2370	2500	2630	2760
	Amps	9.58	10.1	10.7	11.2	11.8	12.3	12.8
	Lb/h	422	405	389	373	357	340	323
45	Btu/h	39400	36500	33700	30900	28100	25300	22500
	Watts	1990	2140	2300	2450	2600	2750	2900
	Amps	9.67	10.3	10.9	11.6	12.2	12.8	13.4
	Lb/h	469	452	436	419	402	384	367
50	Btu/h	43900	40800	37800	34700	31700	28700	25800
	Watts	2010	2180	2350	2520	2690	2860	3030
	Amps	9.74	10.5	11.2	11.9	12.6	13.3	14.0
	Lb/h	519	502	485	467	450	432	414
55	Btu/h	48700	45400	42100	38900	35600	32400	29200
	Watts	2020	2210	2400	2590	2780	2970	3150
	Amps	9.79	10.6	11.4	12.2	12.9	13.7	14.5
	Lb/h	573	555	537	519	500	482	463

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.926771E+04	1.649456E+03	8.449669E+00	2.365257E+02
C2	7.114599E+02	-1.514078E+01	-6.935033E-02	5.499787E+00
C3	-1.047116E+02	-1.243298E+00	-4.907785E-03	-1.151027E+00
C4	5.095136E+00	-1.062977E-01	-3.363018E-04	5.803464E-02
C5	-3.863652E+00	3.688265E-01	1.499586E-03	-1.153642E-02
C6	-3.903191E-03	3.900646E-03	1.452190E-05	5.740059E-04
C7	1.450398E-02	5.703757E-05	-2.030663E-06	2.185476E-05
C8	-1.229069E-02	-1.448877E-04	1.369619E-06	-3.170194E-05
C9	2.613895E-03	6.651253E-05	-1.621174E-07	1.172494E-05
C10	-4.289615E-05	-3.752109E-05	-1.274910E-07	-5.556769E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature